

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
 Ereik Odén, et al.) Group:
 Serial No.:)
 Filed: December 2, 2005) Examiner:
 Title: METHOD AND APPARATUS FOR)
 MEASURING A DEPTH OF HOLES IN)
 COMPOSITE-MATERIAL WORKPIECES)
 BEING MACHINED BY AN ORBITING)
 CUTTING TOOL)

INFORMATION DISCLOSURE STATEMENT

MS Amendment
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

Applicant wishes to bring to the attention of the Examiner the documents identified on the attached form PTO-1449. Applicant respectfully requests that these documents be made of record in the present application.

A copy of each non-US Patent document cited in the attached PTO-1449 form is enclosed.

Patent Document No. WO 01/15870 A2 and WO 03/008136 A1 are each discussed in the specification of the present application.

A concise statement of any non-English document having an English abstract is contained in such abstract, which is incorporated herein by reference.

German Patent DE 43 40 249 discloses an apparatus for controlling the boring of blind holes in multi-layer circuit boards has a machine table (4) supporting the circuit board (LP) which has a number of conducting layers (So to Sw). A potential (Pu) is applied to the nth layer (Sw) either directly or by inductive/capacitive means so that as boring proceeds a reference signal is obtained immediately the boring tool (1) touches the layer. A signal evaluation unit (7) and height gauge (6) responding to the potential changes collectively enable accurate control of the boring machine feed (2,5) and resultant penetration depth.

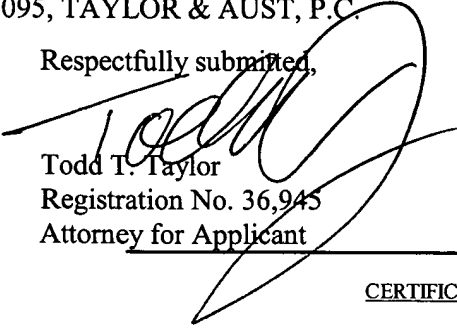
German Patent DE 32 06 354 discloses the device for modifying or repairing non-visible conductor-track patterns on multilayer printed-circuit boards, conductor tracks being cut by drilling or milling, ensures that only the desired conductor track is cut, in that an indicator is connected to the tool, which indicator is also electrically connected to the conductor track to be cut or to the conductor track located underneath the conductor track to be cut and, when the tool touches the relevant conductor track, generates a signal which triggers either an optical or an acoustic indication or stops the drive or the feed.

German Patent DE 100 56 184 discloses the invention relates to a method for defined mechanical drilling of electrical printed circuit boards or printed circuit board stacks. According to this method, an

electrical signal for determining the final level of the drilling depth is obtained from the contact of the bit with a conductive layer (2). The method is characterized in that the conductive layer (2) concerned is part of a drilling support. In this way, the inventive method can be used for drilling through the printed circuit boards or printed circuit board stacks.

In the event Applicants have overlooked the need for a payment of fee, or additional payment of fee, or have overpaid a fee, Applicants hereby conditionally petition therefor and authorize that any charges or credits be made to Deposit Account No. 20-0095, TAYLOR & AUST, P.C.

Respectfully submitted,


Todd T. Taylor
Registration No. 36,945
Attorney for Applicant

TTT/mb

TAYLOR & AUST, P.C.
142 S. Main St.
P.O. Box 560
Avilla, IN 46710
Telephone: 260-897-3400
Facsimile: 260-897-9300

Encs.: Form PTO-1449
Return Postcard

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on: December 2, 2005.

Todd T. Taylor, Reg. No. 36,945

NAME OF REGISTERED REPRESENTATIVE


SIGNATURE

December 2, 2005

DATE

ATTORNEY DOCKET NO.:
ERI0018.US

SERIAL NO:

10/559640

INFORMATION DISCLOSURE STATEMENT

APPLICANT: **IAP9 Rec'd PCT/PTO 02 DEC 2005**
Erik Odén, et al.FILING DATE:
December 2, 2005

GROUP:

U.S PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA	5,971,678	10/1999	Linderholm	409	132	June 15, 1998
	AB	4,644,335	02/1987	Wen	340	683	Apr. 5, 1985
	AC	6,309,151	10/2001	Sacchetti	409	131	October 19, 1999
	AD	4,644,335	02/1987	Wen	340	683	April 5, 1985
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

							Translation	
		Document No.	Date	Country	Class	Subclass	Yes	No
	AL	WO 01/15870	3/2001	PCT	B25F			X
	AM	WO 03/008136	1/2003	PCT	B23C	1/12		X
	AN	DE 43 40 249	11/1993	Germany	H05K	3/46		X
	AO	DE 32 06 354	2/1982	Germany	H05K	3/00		X
	AP	DE 100 56 184	11/2000	Germany	H05K	3/00		X

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER:

DATE CONSIDERED:

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.